

EMULSAN AND EMULSAN ANALOGS
IMMUNIZATION FORMULATIONS AND USE

ABSTRACT OF THE DISCLOSURE

Immunization formulations comprising an antigen and an emulsan or emulsan
5 analog are formed and can be administered to a host. The emulsan or emulsan analog is
an adjuvant in the immunization formulation. The emulsan or emulsan analog is
secreted from *Acinetobacter calcoaceticus*. In particular, the emulsan or emulsan
analog is secreted from *Acinetobacter calcoaceticus* RAG-1. The emulsan analog is
produced and secreted from *Acinetobacter calcoaceticus* cultured in the presence of
10 varying fatty acid sources. The emulsan analog is also produced and secreted from
mutants of *Acinetobacter calcoaceticus*, such as transposon mutants of *Acinetobacter*
calcoaceticus RAG-1.